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DEPARTMENT OF COMMERCE
BUREAU OF STANDARDS
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Letter
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PUBLICATIONS
OF THE
ENGINEERING MECHANICS SECTION
BUREAU OF STANDARDS
DEPARTMENT OF COMMERCE
WASHINGTON

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The following abbreviations are used for the publications:

Bureau of Standards

T.P. - Technologic Paper;
M. - Miscellaneous publication;
C. - Circular;
LC - Letter Circular (Mimeographed).

National Advisory Committee for Aeronautics,
Washington, D. C.
N. A. C. A.

The numbers following the subject are the file numbers. For title of publication see chronological list which follows the subject list.

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CHRONOLOGICAL LIST OF PUBLICATIONS

Numbers preceding the titles are file numbers. Some publications are not of general interest and have, therefore, been omitted. This explains the numbers which are left out.

- 1910 -

- 1 - Heat Changes in Structural Materials,
The Iron Age, p. 1276, December 1, 1910.

- 1912 -

- 2 - Comparison of Five Methods to Measure Hardness,
Ralph P. Devries,
T.P.11, July 22, 1912, Out of Print.

- 1915 -

- 1A - Wire Cables of Various Types and Materials Tested by U. S.
Bureau of Standards,
Engineering News-Record, vol. 72, No. 19, p.567,
Nov. 6, 1915.

- 1918 -

- 6 - Tests of Large Bridge Columns,
J. H. Griffith and J. G. Bragg,
T. P. 101, June 27, 1918, 30 c.

- 7 - Compressive Strength of Large Brick Piers,
J. G. Bragg,
T. P. 111, Sept. 20, 1918, 10 c.
- 8A - Strength Tests of Plain and Protective Sheet Glass,
T. L. Sorey,
Journal of the American Ceramic Society, vol. 1,
No. 11, p. 801, Nov. 1918.
- 9 - Tests of Hollow Building Tiles,
Bernard D. Hathcock and Edward Skillman,
T. P. 120, Feb. 8, 1919, 5 c.
- 14 - Strength and Other Properties of Wire Rope,
J. H. Griffith and J. G. Bragg,
T. P. 121, July 16, 1919, 20 c.
- 15 - The Strength of One-Piece Solid, Built-up, and Laminated
Wood Airplane Wing Beams,
John H. Nelson,
N. A. C. A. Report No. 35 (Fourth Annual Report)
1919.
- 16 - Parker Variable Camber Airplane Wing,
Humphrey F. Parker,
N. A. C. A. Report No. 77 (Fifth Annual Report)
1919.
- 17A - Fire-proof and Transparent Airplane Wing Coverings,
L. B. Tuckerman,
LC VII-1-12, Dec. 1, 1919.
- 1920 -
- 18 - Progress Report of the Special Committee to Codify Present
Practice on the Bearing Value of Soils for Foundations,
L. B. Tuckerman,
Appendix A, American Society of Civil Engineers,
vol. XLVI, No. 6, Aug., 1920.
- 19 - The Airplane Tensiometer,
L. J. Larson,
N. A. C. A. Report No. 32 (Fourth Annual Report)
1920.
- 20 - Test of Timber Posts with Warp and Seasoning Cracks,
Tom W. Greene,
Engineering News-Record, vol. 85, No. 8, p. 342,
Aug. 19, 1920.
- 21 - Physical Tests of Motor Truck Wheels,
Chas. P. Hoffmann,
T. P. 150, March 17, 1920, 15 c.

- 22 - Load Strain-Gage Test of 150-Ton Floating Crane for the Bureau of Yards and Docks, U. S. Navy Dept.,
Louis J. Larson and Richard L. Templin,
T. P. 151, Mar. 18, 1920, 10 c.
- 23 - Investigation of the Compressive Strength of Spruce Struts of Rectangular Cross Section and the Derivations of Formulas Suitable for Use in Airplane Design,
James E. Boyd,
T. P. 152, April 10, 1920, 10 c.

- 1921 -

- 26 - War Work of the Bureau of Standards,
M. 46, April 1, 1921, Out of print.
- 27 - The Hardness Testing of Metals,
Report of a Committee of the Engineering Division of the National Research Council on Various Methods of Testing the Hardness of Metals,
Mechanical Engineering, vol. 43, No. 7, p. 445, July, 1921.
- 28 - An Investigation of Oxyacetylene Welding and Cutting Blow-pipes,
R. S. Johnston,
Mechanical Engineering, vol. 43, No. 5, p. 305, May, 1921.
Transactions, American Society of Mechanical Engineers, vol. 43, p. 141, Paper No. 1792, 1921.
- 29 - Results of Some Tests of Manila Rope,
Ambrose H. Stang and Lory R. Strickenberg,
T. P. 198, Sept. 15, 1921, Out of print.
- 30 - Tests of Rotary Drill Pipes,
A. H. Stang,
The Iron Age, p. 804, Sept. 29, 1921.
The Iron Age, p. 359, Feb. 2, 1922.
- 31 - The Friction and Carrying Capacity of Ball and Roller Bearings,
H. L. Whittemore and S. N. Petrenko,
T. P. 201, Oct. 6, 1921, 10 c.
- 32 - The Ideal Wall Construction,
LC 29, Nov. 16, 1921.

- 33 - An Investigation of Oxyacetylene Welding and Cutting Blowpipes, with Especial Reference to Their Design, Safety, and Economy in Operation,
Robert S. Johnston,
T. P. 200, Dec. 28, 1921, 35 c.

- 1922 -

- 35 - Impact Tests of Woods,
N. A. C. A. Technical Note No. 78, Feb. 1922.
- 36 - Experimental Use of Liquid Air and Explosives for Tightening Body-Bound Bolts,
H. L. Whittemore,
American Machinist, vol. 56, No. 14, p. 524, Apr. 6, 1922.
- 37 - Results of Some Compression Tests of Structural Steel Angles,
A. H. Stang and L. R. Strickenberg,
T. P. 218, Aug. 3, 1922, 10 c.
- 38 - Bibliography on Impact Testing,
H. L. Whittemore,
American Society for Testing Materials Proceedings, vol. 22, p. 6, 1922. (Part II)
- 39 - Wide-Web Column Tests for the Delaware River Bridge,
Engineering News-Record, vol. 89, No. 23, p. 986, Dec. 7, 1922.
- 40 - Effect of Su-dex Process of Treatment on Physical Properties of Several Woods,
LC 53, Nov. 28, 1922.
- 40A - Report on Dirigible Design,
Engineering News-Record, vol. 89, No. 26, p. 1137, Dec. 28, 1922.
- 41 - Tuckerman's Discussion on "Fatigue or Progressive Failure of Metals Under Repeated Stress",
Moore, Kommers and Jasper,
American Society for Testing Materials Proceedings, vol. 22, Part II, p. 236, 1922.
- 42A - Proposed Aeronautical Specifications, Streamline Stay Wires,
LC VII-1-16 and 18a, Jan. 16, 1922.

- 43 - Notes on Aerodynamic Forces on Airship Hulls,
L. B. Tuckerman,
N. A. C. A. Technical Note No. 129, Mar., 1923.
- 44 - Some Tests of Steel Wire Rope on Sheaves,
Edward Skillman,
T. P. 229, Mar. 2, 1923, 10 c.
- 45 - Loading Test of a Hollow Tile and Reinforced Concrete
Floor of Arlington Building,
Louis J. Larson and Serge N. Petrenko,
T. P. 236, April 21, 1923, 15 c.
- 46 - Calibration Boxes for Testing Machines,
LC 94, June 7, 1923.
- 47 - Optical Strain Gages and Extensometers,
L. B. Tuckerman,
American Society for Testing Materials,
Proceedings, vol. 23, Part II, p. 602, 1923.
- 48 - Welded Pressure Vessels,
Journal of American Welding Society, vol. 2, No.
5, p. 11, May, 1923.
Bulletin No. 5, American Bureau of Welding,
June, 1923, \$5.00. (Note: This is not a Bureau
publication; it may be purchased from the Ameri-
can Bureau of Welding, 29 West 39th St., New York)
- 49 - New Developments in Electric Telemeters,
O. S. Peters and R. S. Johnston,
American Society for Testing Materials Pro-
ceedings, vol. 23, Part II, p. 592, 1923. See also
"A New Electric Telemeter", T.P.247, 15 c.
- 50 - Some Compressive Tests of Hollow Tile Walls,
Herbert L. Whittemore and Bernard D. Hathcock,
T. P. 238, July 21, 1923, 5 c.
- 51 - The Strength of Bolt Threads as Affected by Inaccurate
Machining,
George M. Deming,
Mechanical Engineering, vol. 45, No. 10, p.583,
Oct., 1923.
- 52 - Size Standardization by Preferred Numbers,
Hirshfield and Berry,
Pamphlet of the American Society of Mechanical
Engineers, Discussion by L. B. Tuckerman, p. 38.

- 53 - Stresses in a Few Welded and Riveted Tanks Tested Under Hydrostatic Pressure,
A. H. Stang and T. W. Greene,
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- 55 - Current Structural Research at the Bureau of Standards,
Engineering News-Record, vol. 91, No. 22, p.874,
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- 56 - Ideal Wall Proved Strong as Solid,
A. H. Stang,
Brick and Clay Record, vol. 63, No. 4, p. 313,
Feb. 20, 1923.

- 1924 -

- 57 - Equalizer Apparatus for Transverse Tests of Brick,
H. L. Whittemore,
T. P. 251, Feb. 5, 1924, 10 c.
- 58 - Proper Construction of Welds for Pressure Vessels,
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Engineering News-Record, vol. 92, No. 11, p.462,
March 13, 1924.
- 59 - A Simple Fixture for Testing Belting,
American Machinist, vol. 60, No. 30, p. 722, May
15, 1924.
- 60 - Instructions for Preparing Wire Rope Samples,
LC 136, Dec. 5, 1924.
- 61 - Spot-Welded Girders and Columns Tested for Strength,
L. B. Tuckerman,
Engineering News-Record, vol. 92, No. 23, p. 982,
June 5, 1924.
- 62 - Bibliography on Riveted Joints,
A. H. Stang,
Pamphlet of the American Society of Mechanical
Engineers, May, 1924.
- 63 - Strength of Steel Tubing Under Combined Column and Trans-
verse Loading, Including Tests of Columns and Beams,
Tom. W. Greene,
T. P. 253, May 23, 1924, 15 c.
- 64 - Cable Reel of Simple Design,
H. L. Whittemore,
Machinery, p. 925, Aug. 1924.
- 65 - Physical Properties of Materials,
C. 101, April 23, 1924, 40 c.

- 66 - Laboratory Strength Tests of Motor Truck Wheels,
Tom W. Greene,
Journal of the Society of Automotive Engineers,
vol. XV, No. 2, p. 150, Aug. 1924.
- 67 - Tests of Ball Bearings for Rotating Beam Fatigue Machines,
L. B. Tuckerman and C. S. Aitchison,
American Machinist, vol. 61, No. 10, p. 369,
Sept. 4, 1924.
- 68 - Tests of Some Girder Hooks,
Herbert L. Whittemore and A. H. Stang,
T. P. 260, June 28, 1924, 10 c.
- 69 - Tangent Modulus and the Strength of Steel Columns in Tests,
O. H. Basquin,
T. P. 263, Sept. 18, 1924, 20 c.
- 71 - Memorandum on Specimens for Fiber Rope,
LC 122, May 27, 1924.
- 72 - Metal Airplane Wing Patent,
H. L. Whittemore,
Patent No. 1516480, Issued Nov. 18, 1924.
- 73 - The Computation of Colorimetric Purity,
Irving G. Priest, L. B. Tuckerman, Herbert E. Ives,
and F. K. Harris,
Journal of Optical Society of America and Review
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- 74 - Bureau of Standards Reports on Technical Investigations,
(Abstract from Annual Report of the Director),
Engineering News-Record, vol. 93, No. 24, p.946,
Dec. 11, 1924.
- 75 - Discussion on Tests of I-Beams in Torsion,
L. B. Tuckerman,
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Nov. 27, 1924.*
- 76 - Mechanical Meaning of Hardness Numbers,
S. N. Petrenko,
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* See also "Moment of Inertia in I-beams",
Engineering News-Record, vol. 94, No. 7, Vol. 12,
p. 290, Feb. 12, 1925.



- 77 - Hardness and Hardness Testing,
L. B. Tuckerman,
Mechanical Engineering, vol. 47, No. 1, p. 53,
Jan., 1925.
- 78 - Gold from Mercury,
L. B. Tuckerman and P. D. Foote,
Journal of the Optical Society of America,
vol. 9, No. 5, p. 556, Nov., 1924.
- 80 - Design of Specimens for Short-Time Fatigue Tests,
L. B. Tuckerman and C. S. Aitchison,
T. P. 375, Dec. 22, 1924, 5 c.
- 81 - Table of Brinell Hardness Numbers,
M. 62, Dec. 17, 1924, 5 c.
- 82 - An Analysis of the Deformation of the Mooring Spindle of
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L. B. Tuckerman and C. S. Aitchison,
T. P. 270, Jan. 9, 1925, 10 c.
- 83 - The Need for Cheaper Hardness Tests,
H. L. Whittemore,
Mechanical Engineering, vol. 47, No. 3, p. 223,
March, 1925.
- 84 - Stang reports on Floor Test,
A. H. Stang,
Brick and Clay Record, vol. 66, No. 4, p. 277,
Feb. 17, 1925.
- 85 - Compressive Strength of Sand-Lime Brick Walls,
H. L. Whittemore and A. H. Stang,
T. P. 276, Jan. 21, 1925, 10 c.
- 86 - Water Model Tests for Semirigid Airships,
L. B. Tuckerman,
N. A. C. A. Report No. 211, 1925.
- 87 - Circular, Cylindrical and Spherical Units of Measurement,
L. B. Tuckerman,
Mechanical Engineering, vol. 47, No. 4, p. 302,
April, 1925.
- 88 - U. S. Government Master Specification for Wire Rope,
Federal Specifications Board, Specification No. 297,
C. 208, 15 c.

